## CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 72"

SN 043-1064 - LT STA 278 + 24.12 (IL RTE 78)

BILL OF MATERIALS (LEFT END SECTION)
(FOR INFORMATION ONLY)

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BAR	NO.	SIZE	LENGTH	SPACING	SHAPE				
а	3	# 5	30′-1′′	12" cts.					
O 1	5	# 5	36′-6′′	12" cts.					
d	30	# 4	4'-4''	12" cts.					
đ ı	2	# 4	5′-7′′	12" cts.					
d 2	2	# 4	5′-11′′	12" cts.					
dз	2	# 4	6′-3′′	12" cts.					
d 4	2	# 4	6′-7′′	12" cts.					
d s	2	# 4	6′-11′′	12" cts.					
d e	2	# 4	7′-3′′	12" cts.					
dт	2	# 4	7′-7′′	12" cts.					
d s	2	# 4	7'-11''	12" cts.					
dэ	2	# 4	8'-3"	12" cts.					
d 10	2	# 4	8′-7′′	12" cts.					
d 11	2	# 4	8'-11''	12" cts.					
d 12	2	# 4	9'-3''	12" cts.					
d 13	2	# 4	9'-7''	12" cts.					
d 14	2	# 4	9'-11''	12" cts.					
d 15	2	# 4	10'-2''	12" cts.					
d 16	2	# 4	10'-7''	12" cts.					
f	7	# 4	3′-6′′	12" cts.					
h	2	# 4	18'-3"						
h ı	8	# 5	11'-10''	12" cts.					
h 2	4	# 4	3′-0′′						
hз	3	# 4	6′-6′′	12" c†s.					
h 4	4	# 4	18′′-6′′	12" cts.					
h s	9	# 5	16'-3''	12" cts.					
hв	8	# 4	16′-3′′	12" cts.					
u	4	# 6	18'-0''						
DESCR	IPTION			UNIT	QTY				
		REINFORC SECTIONS	CU YD	13.2					
REINFO	RCEMEN	POUND	1105						
2 1/2"	GALV.	FOOT	2 @ 7'-1''						
	GALV F	EACH	4 @ 4''						
	5′′×3/8′′		4						
	1′′×16′′ C	EACH	4						
	< 9" GAI	EACH	8						
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DESIGNED MGH

DRAWN WJH

CHECKED RGD

9/26/2008

DATE

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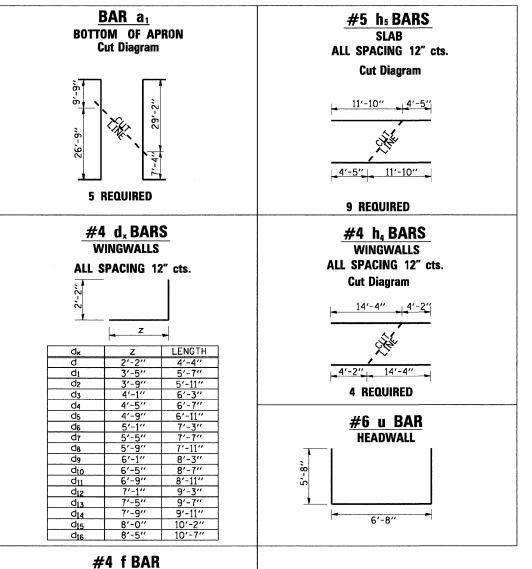
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FILE NAME =

USER NAME \$USER\$

PLOT SCALE = 1:50

PINT DATE : SDATES



## GENERAL NOTES:

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER "EACH" FOR CAST-IN-PLACE RC END SECTIONS 72". THIS WORK SHALL INCLUDE THE GALVANIZED PIPE, STEEL PLATES, STEEL ANGLES, & CAPS, CLASS SI CONCRETE, REINFORCEMENT BARS, BOLTS, NUTS, WASHERS, PIPE GRATING, INSTALLATION ON THE PROPOSED CULVERT, EARTH EXCAVATION AND DIVERTING WATER WHERE REQUIRED, AND ANY NECESSARY GRADING TO FIT THE END SECTION, AS SHOWN IN THE CROSS SECTIONS OR TO SLOPE.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. EXPOSED EDGES SHALL BE BEVELED 3/4 ".

SLOPE FLOW LINE FOR END SECTION IS THE SAME RATE AS THE FLOW LINE OF THE BOX CULVERT.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60 (IL MODIFIED).

BOLTS, NUTS, AND WASHERS SHALL BE IN ACCORDANCE WITH ARTICLE 1006.08 OF THE STANDARD SPECIFICATION AND SHALL BE GALVANIZED.

STEEL PIPES SHALL CONFORM TO ASTM A-53 (TYPE E OR S) CRADE B, SHEDULE 40, AND SHALL BE GALVANIZED CONFORMING TO ASTM A-120. CONTRACTOR SHALL FIELD VERIFY PIPE LENGTH.

STEEL PLATES AND ANGLES SHALL CONFORM TO AASHTO M-183 AND SHALL BE GALVANIZED CONFORMING TO AASHTO M-111.

SEE PLAN AND PROFILE SHEET FOR MORE INFORMATION.

SEE CROSS SECTION SHEET FOR MORE INFORMATION AND INVERT ELEVATIONS.

THE RIGHT END SECTION FOR STA. 278+24.12 SHALL CONFORM TO IDOT HIGHWAY STANDARD 542111-02. SEE ROADWAY PLAN FOR ADDITIONAL INFORMATION.

## MINIMUM BAR LAP LOCATION: END SECTION

LOCATION. END SECTION										
SIZE	LAP	WT,LB/FT								
# 4	1' - 4''	0.668								
# 5	1' - 8''	1.043								
# 6	2' - 0''	1.502								

7 / 0 / / 0 A   \ / 0 TEE   A   / 0   E	F 1011		!			0
3/8" GALV. STEEL ANGLE	<u> EACH</u>	4		# 5	1' - 8''	1,043
6" GALV. STEEL PLATE	EACH	4	·	# 6	2' - 0"	1.502
' GALV. STEEL BOLTS	EACH	8				

FRONTWALL

ALL SPACING 12" cts.

 OTATE OF HUMOIO	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS-72"					F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
 STATE OF ILLINOIS			SI	HEET 2 OF	2		642 (10, 11)T JODAYI		JODAVIESS	283	86	
 DEPARTMENT OF TRANSPORTATION									CONTRACT NO. 64DO7			
	SCALE: SHEET NO. OF SHEETS STA. TO STA.						FED. ROAD DIST.	NO. ILLINOIS FED.	AID PROJECT			